

WELL SUMMARY

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Location ID: BLM-17-550 Field Representative(s): D. Menzie

Date Started: 08/10/90 Date Completed: 09/10/90

Northing: 227659.43 Easting: 403018.75

Brass Cap: 4538.24 Outer Casing: 4539.69 Inner Casing: 4540.27

Drilling Method: Mud Rotary 0'-70' Drilling Contractor: Larjon Drilling Co.
Air-foam Rotary 70'-600'

Driller: J. Gower

Total Depth Borehole: 600' Total Depth Well Casing: 566.17'

Total Depth Surface Casing: 70'

Diameter Well Casing: 4" Diameter Surface Casing: 10"

Length of Bottom Blank: 5.31'

Type of Screen: extra strength 0.02 slot

Screen Interval: 550.44 to 560.86

Water First Detected: 560' Water Level Open Borehole: 461.64' TSC
08/20/90

Water Level Cased Borehole: 469.16" TOC 09/13/90

Quik-Foam Use: 5 gallons

Estimated Water Use: 7,800 gallons

Well Casing:

4in x 3ft SCD 40 PVC:
4in x 5ft SCD 40 PVC:
4in x 10ft SCD 40 PVC:
4in x 20ft SCD 40 PVC:
Total SCD 40 PVC pipe: ft

stock SS centralizers:
custom SS centralizers: yes
4"x2' SS locking riser: 1 x 2'
4" SS locking cap: 1
4" SS female cap: 1
ASTM male adaptor: 2
Johnson male adaptor: 1

4in x 3ft SCD 5 SS pipe:
4in x 5ft SCD 5 SS pipe:
4in x 10ft SCD 5 SS pipe:
4in x 20ft SCD 5 SS pipe: 19 x 20 ft
Total SCD 5 SS pipe: 380 ft

4in x 5ft SCD 10 SS pipe: 1 x 5 ft
4in x 10ft SCD 10 SS pipe: 1 x 10 ft
4in x 20ft SCD 10 SS pipe: 8 x 20 ft
Total SCD 10 SS pipe: 175 ft

Well Completion:

100# bags 16/40 sand:	19	bags
100# bags 10/20 sand:		bags
100# bags 8/14 sand:		bags
100# bags 8/20 sand:	24 3/4	bags
94# bags cement:	170	bags
5 gal. buckets bentonite:		buckets
50# bentonite powder:	18	bags
Benseal:	1/2	bags

Surface Casing:

94# bags cement:	35	bags
50# bags bentonite powder:	4	bags
Grout:		bags

Pertinent Field Notes:

08/10/90	Finish setting up, drilled mud rotary (7 7/8" mill tooth bit) pilot hole 0'-70', used 1,400 gallons water. - Menzie
08/13/90	Ream pilot hole to 16" from 0'-55', mud pump failed, used 1,000 gallons water. - Menzie
08/14/90	Mud pump fixed, finish reaming hole to 70', used 400 gallons water, ran surface casing, poured grout. - Menzie
08/15/90	Demobilize Frank's rig and mobilize BE Rig. - Menzie
08/16/90	Drilled Air Foam Rotary (9 7/8" mill tooth bit) from 70'-390', used 2,500 gallons water. - Menzie
08/17/90	Drilled Air Foam Rotary (9 7/8" mill tooth bit) from 390'-600', detected formation water at 560', detected andesite bedrock at 585', used 2,500 gallons water. - Menzie
08/20/90	Sounded bottom at 563.5', measured water level at 461.64', run ss casing and begin installing gravel pack. - Menzie
08/21/90	Finish installing gravel pack and pump benseal plug. - Menzie

08/22/90 Finish installing filter sand to 10' above water level in annulus and pour first load of grout. Bailed well with no indication of grout invasion. - Menzie

08/23/90 Pour second load of grout. - Menzie

08/24/90 Surge and bail for development, see development sheet for details. - Menzie

08/30/90 Install pump for development, see development sheet for details. - Contaldo

09/10/90 Well developed and pump removed. - Menzie